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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/662,596	2,596 09/15/2003		James B. Cho	TI-34685 (UNITI-169XX)	2358
23494	7590	10/25/2006		EXAM	INER
TEXAS IN	STRUM	ENTS INCORPOR	LE, DINH	LE, DINH THANH	
P O BOX 655474, M/S 3999 DALLAS, TX 75265				ART UNIT	PAPER NUMBER
DALLAS, I	A 7320.	,	•	2816	

DATE MAILED: 10/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Commons	10/662,596	CHO ET AL.					
Office Action Summary	Examiner	Art Unit					
	DINH T. LE	2816					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on 15 Au	aust 2006.						
· · · · · · · · · · · · · · · · · · ·	action is non-final.						
3) Since this application is in condition for allower	secution as to the merits is						
closed in accordance with the practice under E							
·	, , . ,						
Disposition of Claims							
4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.	·					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.						
•	6)⊠ Claim(s) <u>1-26</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) acce	epted or b)□ objected to by the B	Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
<u> </u>	mulanity (modes 25 H C C \$ 440/s)	(4) (5)					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (t).					
a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents	have been received						
		NI					
2. Certified copies of the priority documents	• •						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	, ,,,	ai'					
* See the attached detailed Office action for a list of the certified copies not received.							
	•	•					
Attachment(s) .							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal P						
Paper No(s)/Mail Date:	6) Other:	 					
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FINAL REJECTION

Claim Rejections

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5 and 9-26 are rejected under 35 USC 102 (b) as being anticipated by Amick et al (US 6,650,157).

Amick et al discloses in Figures 3 and 5 a circuit comprising:

- an inherent phase generator(110) configured to generate a first predetermined number of phases of the source clock signal (102), the phases of the source clock signal defining a plurality of phase sectors;
- a state machine (170);
- a phase selector (130, 135) configured to select respective pairs of the phases of the source clock signal, each selected pair of phases bounding a respective one of the phase sectors; and
- a phase interpolator (140) configured to introduce at least one phase of the source clock signal between each pair of phases to provide a second predetermined number of phases of the source clock signal within each phase sector, the phase interpolator being further configured to

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a stepped up or stepped down frequency.

successively output the phases of the source clock signal to derive the output clock signal having

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Claims 1-26 are rejected under 35 USC 102 (e) as being anticipated by Masenas et al (US 6,525,615).

Masenas et al discloses in Figures 1-2 a circuit comprising:

- a phase generator (70) configured to generate a first predetermined number of phases of the source clock signal (8), the phases of the source clock signal defining a plurality of phase sectors;
- a phase selector (41, 42) configured to select respective pairs of the phases of the source clock signal, each selected pair of phases bounding a respective one of the phase sectors;
 - a state machine (54); and
- a phase interpolator (44) configured to introduce at least one phase of the source clock signal between each pair of phases to provide a second predetermined number of phases of the source clock signal within each phase sector, the phase interpolator being further configured to successively output the phases of the source clock signal to derive the output clock signal having a stepped up or stepped down frequency.

Response to Applicant's Arguments

The applicant argues that Masenas and Amick fail to suggest the insertion of additional clock pulses into an output clock to change the output frequency. The argument is not

persuasive because it is based an the unrecited limitation. There is nothing stated in the rejected claims anything about inserting additional pulses into output clock.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to DINH T. LE whose telephone number is (571) 272-1745. The examiner can normally be reached on Monday-Friday (8AM-7PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY CALLAHAN can be reached at (571) 272-1740.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

10/23/2006

Primary Examiner